Slim PCB Relay PCN

1 pole 3 A

F0258-A

Features

- 1 N/O contact
- Only 5 mm wide
- 3 A switching current
- Load range 1 mA up to 3 A
- Sensitive coil 120 mW
- Allows high function-/packing density
- Cadmium-free contacts
- Z type with reinforced insulation

Applications

Centralized and decentralized heating control, extremely narrow interface elements, interface technology, timers, PLC's, I/O modules, I/O-ports

VDE c UL us

Technical data of approved types on request

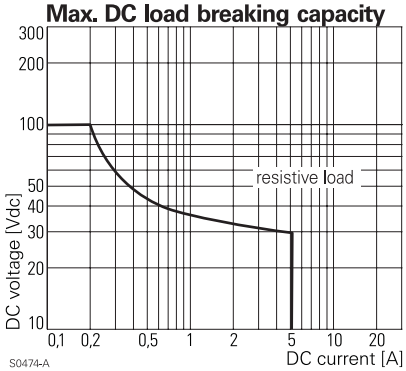
Contact data

Configuration	1 N/O contact
Type of contact	bifurcated contact
Rated current	3 A
Rated voltage / max.breaking voltage AC	250 Vac / 277 Vac
Maximum breaking capacity AC	750 VA
Contact material	AgNi
Minimum contact load	5 Vdc / 1 mA

Contact ratings

Type	Load	Operations	Standard
	3 A, 250 Vac, resistive	$1x10^5$	UL 508, VDE 0435
	3 A, 30 Vdc, resistive	$1x10^5$	UL 508, VDE 0435

Max. DC load breaking capacity



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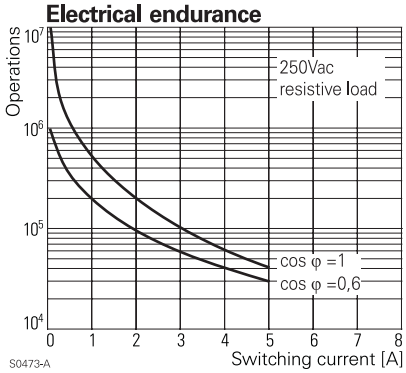
Electrical endurance



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Coil data

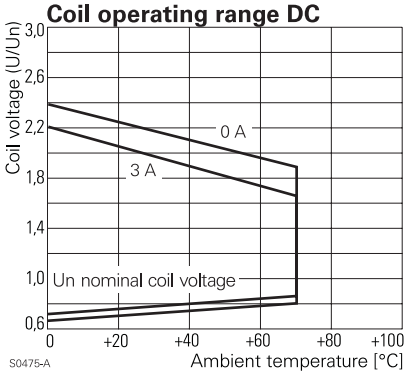
Nominal voltage	5...24 Vdc
Nominal coil power	120 mW
Operate power	58.8 mW
Operate category	1

Coil versions

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
005	5	3.5	0.5	6.5	208±10%	24.0
006	6	4.2	0.6	7.8	300±10%	20.0
009	9	6.3	0.9	11.7	675±10%	13.3
012	12	8.4	1.2	15.6	1200±10%	10.0
024	24	16.8	2.4	31.2	4800±10%	5.0

All figures are given for coil without preenergization, at ambient temperature +20°C
Other coil voltages on request

Coil operating range DC



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Edition: 02/2003

Slim PCB Relay PCN

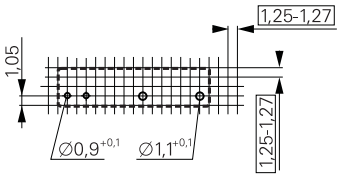
1 pole 3 A

Insulation		
Dielectric strength	coil-contacts	3000 V_{rms}
	open contact circuit	750 V_{rms}
Surge voltage resistance coil-contacts		5000 V (1.2 / 50 µs)
Clearance / creepage		3.5 / 3.5 mm
Insulation to IEC 60664		
Voltage rating		277 V
Pollution degree		2
Overvoltage category as basic insulation		III
	as reinforced insulation	II
Tracking resistance of relay base		PTI 600

Other data	
Flammability class according to UL 94	V-0
Ambient temperature	-30...+70 °C
Mechanical life	$20x10^6$ operations
Max. switching rate at rated- / minimum load	10 min^{-1} / 20 s^{-1}
Operate- / release time	5 / 2 ms
Bounce time N/O contact typ.	<1 ms
Category of protection (IEC 61810)	RT III - wash tight
Relay weight	3 g
Packaging unit	25 / 2000 pcs.

PCB layout / terminal assignment

View on solder pins
Dimensions in mm



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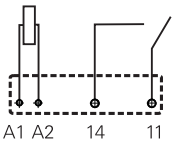

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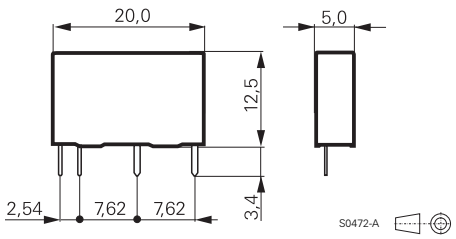
Dimensions

Dimensions in mm



Product key

P C N | 1 | | | D | 3 | M | H | Z

Type

Number of contacts
1 1 pole

Coil
coil code: please refer to coil versions table

Coil version
D standard 120 mW

Contact material
3 AgNi

Contact configuration
M 1 N/O contact

Version
H wash tight

Insulation
Z tracking resistance of relay base PTI 600

Other types on request

Product key	Contacts	Coil	Coil	Contacts	Version	Part number
PCN-105D3MHZ	1-pole	5 Vdc	standard	1 N/O	wash tight	3-1461491-0
PCN-106D3MHZ		6 Vdc	120 mW	AgNi	PTI 600	3-1461491-1
PCN-112D3MHZ		12 Vdc				3-1461491-3
PCN-124D3MHZ		24 Vdc				3-1461491-6

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